

What is claimed is:

1. An optical pulse generating apparatus, comprising:

5 a light source outputting single wavelength light; and

an optical pulse generating unit generating an optical pulse by generating modulation spectrum components by performing phase modulation for light from 10 said light source, and by adjusting phases of wavelengths of the modulation spectrum components included in generated light.

2. An optical pulse generating apparatus, 15 comprising:

a light source outputting single wavelength light; and

an optical pulse generating unit generating an optical pulse by performing phase modulation for light 20 output from said light source, and by selecting, with a wavelength selector, wavelength components phases of which are aligned among the modulation spectrum components included in the generated light, and which are different from said light source.